

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Hirotoshi TAKAHASHI et al. :  
Serial No. NEW : Attn: APPLICATION BRANCH  
Filed July 3, 2003 : Attorney Docket No. 2003\_0924

MODULATOR AND DEMODULATOR  
(Rule 1.53(b) Divisional  
of Serial No. 10/036,428,  
Filed January 7, 2002)

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED  
TO CHARGE ANY DEFICIENCY IN THE  
FEES FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of [X] the references listed on attached form PTO-1449 and/or [] the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in prior parent application Serial No. 10/036,428.

1a.  This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b.  This Information Disclosure Statement is submitted  
after the events of above paragraph 1a and prior to the mailing date of a final Office  
Action or a Notice of Allowance or an action which otherwise closes prosecution in the  
application, and thus:  
  
(1)  the certification of paragraph 2 below is provided, or  
  
(2)  the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

1c.  This Information Disclosure Statement is submitted:  
after the mailing date of a final Office Action or Notice of Allowance or action which  
otherwise closes prosecution in the application, and prior to payment of the issue fee, and  
thus:  
  
**the certification of paragraph 2 below is provided, and**  
  
**the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.**

2. It is hereby certified

- a.  that each item of information contained in this Information Disclosure Statement  
was first cited in any communication from a foreign patent office in a counterpart  
foreign application not more than three months prior to the filing of the  
Statement, or
- b.  that no item of information contained in the Information Disclosure Statement  
was cited in a communication from a foreign patent office in a counterpart  
foreign application and, to the knowledge of the person signing the certification  
after making reasonable inquiry, was known to any individual designated in  
§1.56(c) more than three months prior to the filing of the Statement.

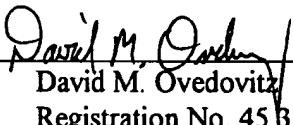
3.  Consideration of the following list of additional information (including any copending or  
abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
  - a. [ ] a full or partial English language translation submitted herewith,
  - b. [ ] a foreign patent office search report (in the English language) submitted herewith,
  - c. [ ] the concise explanation contained in the specification of the present application at page ,
  - d. [ ] the concise explanation set forth in the attached English language abstract,
  - e. [ ] the concise explanation set forth below or on a separate sheet attached to the reference:
5. [ ] A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Hirotoshi TAKAHASHI et al.

By

  
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July 3, 2003

FORM PTO 1449-(modified)			ATTY DOCKET NO. 2003_0924	SERIAL NO. NEW			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			APPLICANT Hirotoshi TAKAHASHI et al.				
LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>			FILING DATE July 3, 2003	GROUP 2817			
Date Submitted to PTO: July 3, 2003							
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Jn</i>	AA	5,825,242	10/1998	Prodan et al.	<i>      </i>	<i>      </i>	
<i>Jn</i>	AB	5,535,245	7/1996	Kim	<i>      </i>	<i>      </i>	
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
	AJ						
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	AO						
	AP						
	AQ						
EXAMINER	<i>M/S</i>			DATE CONSIDERED	<i>9/2/04</i>		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.